

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **22CZ-LD5-32SE-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-32SE-UNV-L840-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3267.1 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

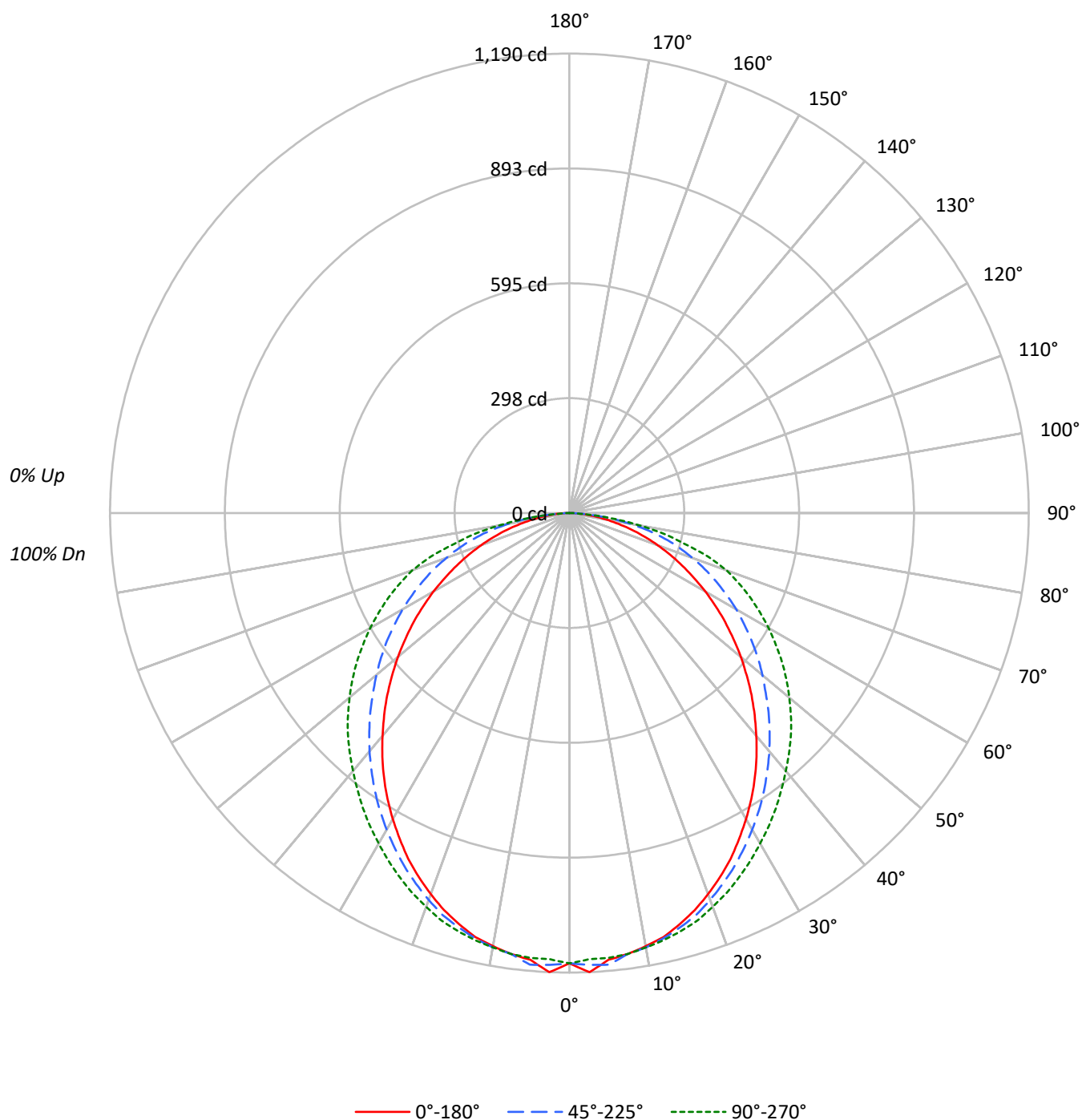
Input Watts (W): 30.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3138	3138	3138
5°	3124	3152	3111
10°	3085	3083	3094
15°	3031	3036	3079
20°	2953	2976	3052
25°	2867	2904	3019
30°	2764	2827	2984
35°	2658	2750	2960
40°	2539	2671	2941
45°	2419	2592	2942
50°	2291	2521	2938
55°	2157	2457	2943
60°	2014	2392	2951
65°	1855	2319	2969
70°	1682	2229	2989
75°	1462	2104	2715
80°	1170	1758	2225
85°	811	1031	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.4
10°-20°	313.3	9.6
20°-30°	466.0	14.3
30°-40°	551.2	16.9
40°-50°	566.5	17.3
50°-60°	517.7	15.8
60°-70°	414.1	12.7
70°-80°	259.9	8.0
80°-90°	67.7	2.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	889.9	27.2
0°-40°	1441.1	44.1
0°-60°	2525.3	77.3
0°-90°	3267.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3267.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1161	1161	1174	1166	1157	110
15°	1103	1104	1110	1117	1120	311
25°	988	994	1010	1028	1041	454
35°	837	848	879	912	933	523
45°	667	685	729	783	812	514
55°	492	516	577	640	672	441
65°	322	351	419	483	516	320
75°	167	199	256	294	310	177
85°	41	52	60	59	59	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1190.0	1185.2	1170.9	1161.4	1156.6
5°	1161.4	1161.4	1174.1	1166.1	1156.6
7.5°	1151.8	1151.8	1151.8	1175.7	1151.8
10°	1139.1	1140.7	1142.3	1151.8	1142.3
12.5°	1124.8	1124.8	1128.0	1131.2	1132.8
15°	1102.6	1104.2	1110.5	1116.9	1120.1
17.5°	1078.7	1083.5	1091.5	1099.4	1105.8
20°	1050.1	1056.5	1066.0	1078.7	1085.1
22.5°	1020.0	1026.3	1039.0	1053.3	1064.4
25°	988.2	994.5	1010.4	1027.9	1040.6
27.5°	951.6	959.6	978.7	1002.5	1015.2
30°	915.1	924.6	946.9	973.9	988.2
32.5°	877.0	888.1	913.5	943.7	961.2
35°	837.3	848.4	878.6	911.9	932.6
37.5°	796.0	808.7	842.0	880.2	902.4
40°	753.1	767.4	805.5	846.8	872.2
42.5°	710.2	726.0	767.4	816.6	842.0
45°	667.3	684.7	729.2	783.2	811.8
47.5°	622.8	643.4	689.5	749.9	778.5
50°	579.9	600.5	653.0	714.9	743.5
52.5°	535.4	559.2	614.8	678.4	708.6
55°	492.5	516.3	576.7	640.3	672.0
57.5°	449.6	473.4	537.0	602.1	633.9
60°	406.7	432.1	498.9	562.4	595.8
62.5°	363.8	390.8	459.1	524.3	556.1
65°	322.5	351.1	419.4	483.0	516.3
67.5°	282.8	313.0	379.7	441.7	475.0
70°	243.1	273.3	338.4	398.8	432.1
72.5°	204.9	235.1	298.7	352.7	378.1
75°	166.8	198.6	255.8	293.9	309.8
77.5°	130.3	162.0	211.3	236.7	254.2
80°	96.9	123.9	158.9	177.9	184.3
82.5°	66.7	89.0	111.2	116.0	119.2
85°	41.3	52.4	60.4	58.8	58.8
87.5°	19.1	20.7	17.5	12.7	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)